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Laser beam regenerative amplifier - has wave selection unit which selects requisite wavelength after being amplified in medium positioned inbetween resonator mirrors
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Patent Family

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Patent Details

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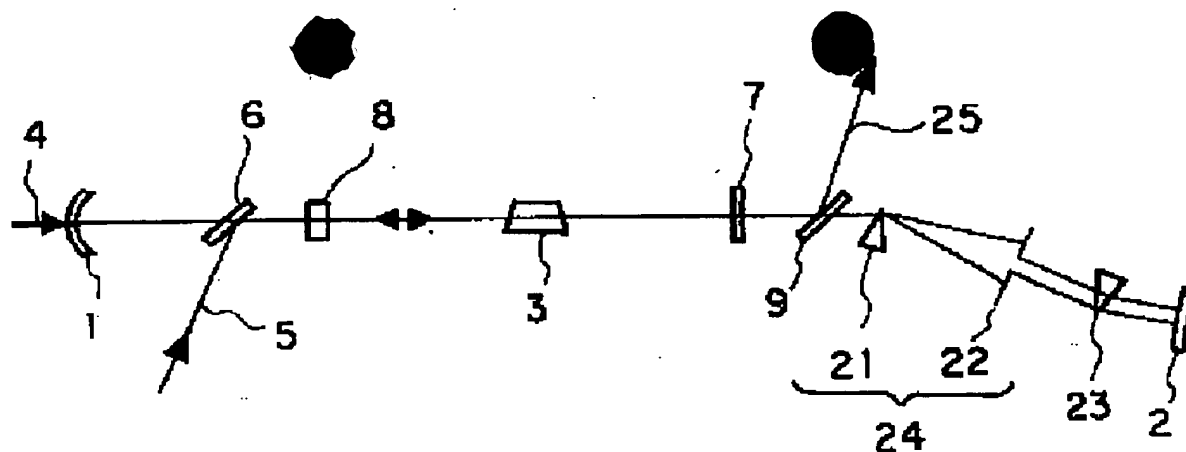
Abstract:

JP 7142799 A

The laser beam amplifier consists of a pair of resonator mirrors (1,2) arranged in opposite sides of an optical path. A medium (3) is placed inbetween the two mirrors. Along the optical path, two polarisation beam splitters (6,9) are arranged on either sides of the medium. A wavelength selection unit (24) is provided between the mirror (2) and the beam splitter (9). An incident beam (5) is mixed with an excitation beam (4) and projected along the optical path by means of the polarisation beam splitter. The beam is passed through the medium and an amplified laser light (25) of predetermined wavelength is obtained from the wave selection unit.

ADVANTAGE - Enables selection of requisite laser beam wavelength.

Dwg.1/2



1, 2: 共振器ミラー

3: 利得媒質

5: 入射ビーム (被増幅光)

6: 偏波ビームスプリッタ (光合波手段)

9: 偏波ビームスプリッタ (光合波手段)

21: プリズム

22: スリット

23: プリズム

24: 波長選択手段

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